Execution Strategy (Tekana-Wallet – Back-End)

Prepared By: Max T. Ahirwe

Task	Participants	Rationale	Work Breakdown	Timebox
Brainstorming sessions to understand the overall business use case	Key Business personnel Business Analysts Product Owner Team lead/Scrum Master Team members.	These sessions will be helpful to understand the needs of the business and how they can be addressed through digitization, for this particular case study, there needs to be a clear picture of what the business wants to achieve with E-Tekana.	Identification of	5 Days
Establish an overall product roadmap	 Business analysts. Team lead Engineering Manager Senior Backend Engineer Senior Frontend Engineer 	This phase will allow the team to consolidate efforts & expertise to come up with a blueprint of the intended solution.	Overall estimation of work effort Preliminary ERD & class diagram Descriptive key use cases study. Cross functionality implications, in the context of the Back-end, input from the following stakeholders is instrumental: Infrastructure Network Ul/Front-End Team Gannt chart	10 Days
Deliver a product roadmap in the context of the Back-End/System architecture	 Team Lead Engineering Manager Senior Back- End Senior Front- end Engineers. DevOps Lead 	Detailed plan of how the backend team intends to execute the roadmap taking into consideration cross-functionality with the front-end & infrastructure team. For the case of E-Tekana wallet, it is crucial to establish a blueprint that illustrates how the back-end architecture plans to onboard users until they are able to make transactions in the system. Critical elements that can guide back-end roadmap execution: Product breakdown structure Minimum viable product Minimum marketable product Version 1, 2 and further.	Features assessment & efforts estimation Registration Wallets Transactions Key Integrations Assessment Identity - Nida. Banks, Mobile Wallets. Any other integration as per business logic needs. Establish a Quality Control Process Test cases (Unit & Integration) Review Process Coding standards Enforcement Delivery pipeline Testing Environment Staging Environment	5 Days

		 Critical RESTful endpoints to be consumed by the front- end Sample of necessary data attributes 	 Production Environment 	
Strategy Assessment and review by management	Engineering ManagerCTO	Presentation & Submission of compiled product roadmap for review and approval.	Feedback is highly taken into consideration. a final strategy should be drafted as per comments/input from Management.	5 Days
Strategy Execution (Back-end context)	 Team Lead/Product Owner Senior Back End Engineer Team Members 	Execution should adopt the following structure using an agile methodology (SCRUM) • Releases • Sprints • Features Proposed Release plan • Release 1 (MVP- most	Features can be allocated into sprints as per the following	3 Sprints (MVP) 3 Sprints (MMP)
		viable product) – 3 Sprints Release 2 (MMP - most marketable product) – 3 Sprints (Go - Live) Further Releases for Continuous Improvements.	Retrospective Code reviews Best Principles Adoptions SOLID DRY KISS Code Efficiency	
		The MVP should have the following features User Registration Wallet Creation Make transactions The MMP should be a solid	 Readability Branch-feature Design Self- Documentation Version control Adherence to world 	
		product that went through user acceptance testing, system integration testing and have taken into consideration sandbox reviews, internal business unit review and considerably ready to be used by the public (Go-LIVE)	class standards Test Coverage Weekly delivery of finished endpoints to allow consumption by front-end team, enabling the possibility of an overlapping execution of the product roadmap across teams.	